

SEQUENCE LISTING

<110> National Institute of Advanced Industrial Science and Technology

KANKYO ENGINEERING Co., Ltd.

<120> NOVEL NUCLEIC ACID PROBES, METHOD FOR DETERMINING CONCENTRATIONS OF NUCLEIC ACID BY USING THE PROBES, AND METHOD FOR ANALYZING DATA OBTAINED BY THE METHOD.

<150> JP2000/193133

JP2000/236115

JP2000/292483

<151> June 27, 2000

<160> 69

<210> 1

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease and decrease in fluorescence emission of a nucleic acid probe labeled with Dabcyl and Texas Red upon the hybridization of the probe with a target nucleic acid.

<400> 1

ggggggaaaa aaaaaa 15

<210> 2

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease and decrease in fluorescence emission of a nucleic acid probe labeled with Dabcyl and Texas Red upon the hybridization of the probe with a target nucleic acid.

<400> 2

ttttttttcc ccccc 15

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was hybridized with 16S RNA gene of Escherichia coli.

<400> 3

ctg cct ccc gta gga gt 20

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was hybridized with 23S RNA gene of Escherichia coli JM109

<400> 4  
ccc aca tcg ttt tgt ctg gg 20

<210> 5  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 5  
atatatattt ttttttgtt tttttttttt 30

<210> 6  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 6  
atatatattt ttttttgtt tttttttttt 30

<210> 7  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 7  
atatatattt tttttttgt tttttttttt 30

<210> 8  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 8  
atatatattt ttttttttg tttttttttt 30

<210> 9  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 9  
atatatattt tttttctttt tttttttttt 30

<210> 10  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 10  
atatatattt tttttctttt tttttttttt 30

<210> 11  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 11  
atatatattt tttttttctt tttttttttt 30

<210> 12  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 12  
atatatattt ttttttttct tttttttttt 30

<210> 13  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 13

atatatattt ttttttttc ttttttttt

30

<210> 14

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 14

aacaaaaaaaaa atatataat

18

<210> 15

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 15

acaaaaaaaaaa atatataat

18

<210> 16

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 16

caaaaaaaaaaa atatataat

18

<210> 17

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 17

aaaaaaaaaaa atatatat 18

<210> 18  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 18  
aagaaaaaaaa atatatat 18

<210> 19  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 19  
agaaaaaaaa atatatat 18

<210> 20  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 20  
gaaaaaaaaa atatatat 19

<210> 21  
<211> 20  
<212> DNA  
<213> Artificial  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 21  
tatatatata tttttggggg 20

<210> 22  
<211> 20  
<212> DNA

<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 22  
tatatatata ttttttgggg 20

<210> 23  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 23  
tatatatata tttttttggg 20

<210> 24  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 24  
tatatatata ttttttttgg 20

<210> 25  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 25  
tatatatata tttttttttg 20

<210> 26  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 26  
tatatatata tttttcccc 20

<210> 27  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 27  
tatatatata ttttttcccc 20

<210> 28  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 28  
tatatatata tttttttccc 20

<210> 29  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 29  
tatatatata ttttttttcc 20

<210> 30  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 30  
tatatatata ttttttttcc 20

<210> 31  
<211> 20

<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 31  
tatatatata tttttttt 20

<210> 32  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 32  
ccccaaaaaa tatatatata 20

<210> 33  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 33  
ccccaaaaaa tatatatata 20

<210> 34  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 34  
cccaaaaaaa tatatatata 20

<210> 35  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the

probe with a target nucleic acid.

<400> 35

ccaaaaaaaaaaa tatatatata

20

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 36

aaaaaaaaaaaaaaa tatatatata

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 37

ggggaaaaaaa tatatatata

20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 38

ggggaaaaaaa tatatatata

20

<210> 39

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 39

gggaaaaaaa tatatatata

20

<210> 40

<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 40  
ggaaaaaaaaatataaaaaaa 20

<210> 41  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 41  
gaaaaaaaaatataaaaaaa 20

<210> 42  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 42  
aaaaaaaaatataaaaaaa 20

<210> 43  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 43  
ccccccctttt tttttttt 18

<210> 44  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid

probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 44

ggggggaaaa aaaaaaaaaa 18

<210> 45

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 45

ttttttcccc cccccccc 18

<210> 46

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 46

aaaaaaaaaggggg gggggggg 18

<210> 47

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 47

aaaaaaaaaaag gggggg 15

<210> 48

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 48

tttttttttc ccccc 15

<210> 49  
<211> 15  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 49  
gggggggggaa aaaaaa 15

<210> 50  
<211> 15  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 50  
cccccccccct ttttt 15

<210> 51  
<211> 35  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806), which sequence is corresponding to the positions 1156 to 1190 of 16SrRNA in Escherichia coli JM109 strain. The oligonucleotide is an oligodeoxyribonucleotide in positions 1 to 16 and 25 to 35, and is an oligoribonucleotide in positions 17 to 24.  
<400> 51  
catccccacc ttccctccgagt tgaccccg cagtc 35

<210> 52  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).  
<400> 52  
tccttgagt tcccgccgg a 21

<210> 53  
<211> 32  
<212> RNA  
<213> Artificial Sequence  
<223> The RNA hybridizes specifically with a sequence of 16SrRNA

in Cellulomonas sp.KYM-7 (FERM P-16806) .  
<400> 53  
ccctggcgt aaggccatg atgacttgac gt 32

<210> 54  
<211> 35  
<212> RNA  
<213> Artificial Sequence  
<223> The RNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806) .  
<400> 54  
catccccacc ttcctccgag ttgaccgg cagtc 35

<210> 55  
<211> 17  
<212> RNA  
<213> Artificial Sequence  
<223> The RNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806) .  
<400> 55  
ctttcctccg agttgac 17

<210> 56  
<211> 35  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806) .  
<400> 56  
catccccacc ttcctccgag ttgaccgg cagtc 35

<210> 57  
<211> 36  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Agromobacterium sp. KYM-8(FERM P-11358) .  
<400> 57  
catccccacc ttcctctggc ttatcacccg gcagtc 36

<210> 58  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 58

ctttttttt cccccccccc

19

<210> 58

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 58

tttctttttt cccccccccc

19

<210> 60

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 60

ggggggggaa aaaaaaaag

18

<210> 61

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 61

ggggggggaa aaaagaaa

18

<210> 62

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 62

cggggggggt tttttttt

17

<210> 63

<211> 17

<212> DNA

<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 63  
aaaaaaaaacc cccccc 17

<210> 64  
<211> 17  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 64  
aaaaaaaaacc ccccccc 17

<210> 65  
<211> 17  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 65  
aaaaaaaaacc cccccc 17

<210> 66  
<211> 17  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 66  
aaaaaaaaacc cccccc 17

<210> 67  
<211> 50  
<212> DNA  
<213> Artificial Sequence  
<223>  
<400> 67  
aaacgatgtg gcaaggccca gacagccagg atgttggctt agaaggcagcc 50

<210> 68

<211> 16  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 68  
ccttccca a tcgtttt 16

<210> 69  
<211> 16  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 69  
ccttccata tcgtttt 16

<210> 70  
<211> 16  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 70  
ccttccaaa tcgtttt 16

<210> 71  
<211> 16  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.  
<400> 71  
cttccccaga tcgtttt 16

<210> 72  
<211> 16  
<212> DNA  
<213> Artificial Sequence  
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid

probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 72  
ccttccctga tcgtttt 16

<210> 73  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 73  
ccttccctgt tcgtttt 16

<210> 74  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<223> The DNA hybridizes with the gene of 16SrRNA gene in Escherichia coli.

<400> 74  
catcgtttac ggcgtggac 19

<210> 75  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<223> The DNA hybridizes with the gene of 16SrRNA gene in Escherichia coli.

<400> 75  
ccagcagccg cggttaatac 19

<210> 76  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.

<400> 76  
agagtttgat cctggctcag 20

<210> 77  
<211> 19  
<212> DNA  
<213> Artificial

<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.

<400> 77  
ggttaccttg ttacgactt 19

<210> 78  
<211> 14  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.  
<400> 78  
cgggcggtgt gtac 14

<210> 79  
<211> 23  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes with the human -globin gene.  
<400> 79  
ctggtctcct taaacctgtc ttg 23

<210> 80  
<211> 22  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes with the human -globin gene.  
<400> 80  
gtttggccaa tctactccca gg 22

<210> 81  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes with 16S RNA of Escherichia coli  
<400> 81  
citaacacat gcaagtcg 18

<210> 82  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes with . 16S RNA of Escherichia coli  
<400> 82  
ttgtacacac cggccgtca 19

<210> 83  
<211> 22  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes with 16S RNA gene of Paracoccus denitrificians DSM 413  
<400> 83  
ctaattccttt ggccataaa tc 22

<210> 84  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes with 16S RNA gene of Paracoccus denitrificians DSM 413  
<400> 84  
agagtttgat cctggctc ag 20

<210> 85  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
<223> The DNA hybridizes with . 16S RNA gene of Paracoccus denitrificians DSM 413  
<400> 85  
ggttaccttg ttacgactt 19

<210> 86  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
<223> The sequence hybridized with of the sequence of the above no.83  
<400> 86  
gatttatcgc caaaggatta g 21

<210> 87  
<211> 21  
<212> DNA  
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<223> The sequence hybridizes with the sequence of the above no..83.  
<400> 87  
gatttatcgt caaaggatta g 21

<210> 88  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
<223> A sequence of the CYP21 gene of human.  
<400> 88  
cgcagccgag catggaaaca 19

<210> 89

<211> 16  
<212> DNA  
<213> Artificial Sequence  
<223> A sequence of the CYP21 gene of human.  
<400> 89  
cgctgctgcc ctccgg 16

<210> 90  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
<223> A sequence of the CYP21 gene of human..  
<400> 90  
aaggcacgt gcacatggc 19

<210> 91  
<211> 22  
<212> DNA  
<213> Artificial Sequence  
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<400> 91  
catcgtggag atgcagctga cg 22

<210> 92  
<211> 25  
<212> DNA  
<213> Artificial Sequence  
<223> A sequence of the CYP21 gene of human...  
<400> 92  
cctgcagcat catctgttac ctcac 25

<210> 93  
<211> 19  
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tcttccatgc tcggctgctg 19

<210> 94  
<211> 19  
<212> DNA  
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<400> 94  
tcttccatgg tcggctgctg 19

<210> 95  
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<400> 95  
ccggagggca gcagcgcg 16

<210> 96  
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<400> 96  
ccggaggaca gcagcgcg 16

<210> 97  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
<223> The sequence hybridizes with the sequence of the above no.90...  
<400> 97  
gccatgtgca cgtgccctt 19

<210> 98  
<211> 19  
<212> DNA  
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<400> 98  
gccatgtgca agtgccctt 19

<210> 99  
<211> 19  
<212> DNA  
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<400> 99  
gcctgccacg aggctctcc 19

<210> 100  
<211> 19  
<212> DNA

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<400> 100  
gcctgccacc aggctctcc 19

<210> 101  
<211> 25  
<212> DNA  
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<400> 101  
gtgaggtaac agatgatgct gcagg 25

<210> 102  
<211> 25  
<212> DNA  
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<210> 103  
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<212> DNA  
<213> Artificial Sequence  
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<400> 103  
cttggggggg catatctg 18

<210> 104  
<211> 22  
<212> DNA  
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<400> 104  
acatccggct.ttgactctct ct 22

<210> 105  
<211> 19  
<212> DNA  
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aaggcacgt gcacatggc 19

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<212> DNA  
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<210> 107  
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<212> DNA  
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<210> 108  
<211> 25  
<212> DNA  
<213> Artificial Sequence  
<223> The sequence hybridizes with a sequence of human CYP21 gene..  
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